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OM protein - protein search, using sw model
Run on: February 11, 2004, 10:44:14 ; Search time 33 Seconds
(without alignments)
1433.951 Million cell updates/sec

Title: US-09-441-723-1
Perfect score: 1185
Sequence: 1 MGPLPRTVELFDVLSYPSW.....AHLLGKWMGPIPPAVNARL 226

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 801455 seqs, 209382283 residues

Total number of hits satisfying chosen parameters: 801455

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US05_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1185	100.0	240	9	US-09-876-889-349
2	326.5	27.6	107	11	Sequence 349, App
3	113	9.5	241	15	Sequence 5132, App
4	92.5	7.8	255	15	Sequence 11189, A
5	91	7.7	581	12	Sequence 8857, App
6	89.5	7.6	962	12	Sequence 2888, App
7	89	7.5	545	12	Sequence 23533, A
8	89	7.5	592	12	Sequence 20, Appl
9	89	7.5	592	12	Sequence 2, Appl1
10	89	7.5	592	12	Sequence 4, Appl1
11	89	7.5	592	12	Sequence 64, Appl
12	89	7.5	609	12	Sequence 67, Appl
13	89	7.5	609	12	Sequence 6, Appl1
14	89	7.5	751	12	Sequence 63, Appl
15	86.5	7.5	395	10	Sequence 59, Appl
					Sequence 4728, App

16	88.5	7.5	399	10	US-09-738-626-6230	Sequence 6230, Ap
17	87	7.3	1330	15	US-10-156-761-10510	Sequence 10510, A
18	86	7.3	355	15	US-10-156-761-14132	Sequence 14132, A
19	85	7.2	323	15	US-10-156-761-14693	Sequence 14693, A
20	83.5	7.0	539	12	US-10-413-943-10	Sequence 10, Appl
21	81	6.8	586	12	US-10-097-111-286	Sequence 286, App
22	81	6.8	911	11	US-09-291-417-92	Sequence 92, Appl
23	80.5	6.8	496	12	US-10-369-493-8637	Sequence 8637, Ap
24	80.5	6.8	532	12	US-10-413-943-12	Sequence 12, Appl
25	80.5	6.8	705	12	US-10-369-493-1864	Sequence 1864, Ap
26	80	6.8	245	10	US-09-738-626-6324	Sequence 6324, Ap
27	80	6.8	540	12	US-10-369-493-45	Sequence 45, Appl
28	80	6.8	1162	12	US-10-452-024-113	Sequence 113, App
29	79.5	6.7	547	12	US-10-369-493-23358	Sequence 23358, A
30	79.5	6.7	1073	9	US-09-819-249-2	Sequence 2, Appl1
31	79.5	6.7	1073	15	US-10-157-031-18	Sequence 18, Appl
32	79.5	6.7	3133	12	US-10-369-493-18917	Sequence 18917, A
33	79	6.7	507	15	US-10-156-761-14917	Sequence 14917, A
34	79	6.7	929	12	US-10-369-493-11264	Sequence 11264, A
35	78	6.6	248	12	US-10-369-493-988	Sequence 988, App
36	78	6.6	910	12	US-10-369-493-21509	Sequence 21509, A
37	78	6.6	1162	12	US-10-452-024-115	Sequence 115, App
38	77.5	6.5	323	12	US-10-374-780A-1901	Sequence 1901, Ap
39	77	6.5	578	12	US-10-369-493-9749	Sequence 9749, Ap
40	77	6.5	645	12	US-10-369-493-12296	Sequence 12296, A
41	77	6.5	659	9	US-09-841-132-497	Sequence 497, App
42	77	6.5	659	12	US-10-289-762-432	Sequence 432, App
43	77	6.5	659	15	US-10-022-832-10	Sequence 10, Appl
44	77	6.5	824	11	US-09-309-567B-53	Sequence 53, Appl
45	76.5	6.5	317	11	US-09-880-729-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-09-876-889-349
; Sequence 349, Application US/09876889
; Patent No. US20020076715A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: King, Gordon E.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR OVARIAN
; TITLE OF INVENTION: CANCER THERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.466C3
; CURRENT APPLICATION NUMBER: US/09/876,889
; CURRENT FILING DATE: 2001-06-06
; NUMBER OF SEQ ID NOS: 353
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 349
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-876-889-349

Query Match	100.0%;	Score 1185;	DB 9;	Length 240;
Best Local Similarity	100.0%;	Pred. NO. 2.9e-120;		
Matches 226;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MGPLPRTVELFDVLSYPSWLGFEILCRYQNIWNINQLRPSLTITGMKDSGNKPPGLLP	60	
Db	15	MGPLPRTVELFDVLSYPSWLGFEILCRYQNIWNINQLRPSLTITGMKDSGNKPPGLLP	74	

Qy	61	RKGLYMANDLKLRRHILQIPHFDPFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRE	120	
Db	75	RKGLYMANDLKLRRHILQIPHFDPFLSVMLEKGSLSAMRFLTAVNLEHPEMLEKASRE	134	
Qy	121	LWVRVSRNEDITEPQSILAAAEKAGNSAQQAQGLLEKIATPKVKNQIKETTEACRYGA	180	
Db	135	LWVRVSRNEDITEPQSILAAAEKAGNSAQQAQGLLEKIATPKVKNQIKETTEACRYGA	194	

QY 181 FGLPITVAHVDTGTHMLFSGDRMELLAHLGKWMGPPIPPAVNARL 226
DB 195 FGLPITVAHVDTGTHMLFSGDRMELLAHLGKWMGPPIPPAVNARL 240

RESULT 2

US-10-764-891-5132
; Sequence 5132, Application US/09764891
; Publication No. US20030077808A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC006
; CURRENT APPLICATION NUMBER: US/09/764,891
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 10231
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 5132
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-891-5132

Query Match 27.6%; Score 326.5; DB 11; Length 107;
Best Local Similarity 84.2%; Pred. No. 1.9e-27;
Matches 64; Conservative 4; Mismatches 3; Indels 5; Gaps 1;

QY 41 PSLTIGIMKDSGNKPPGLPRKGLYMANDLKLRHHLQIPIHPKDFLSVMLEKGSLSAM 100
DB 25 PNULL-----AGNKPGLPRKGLYMANDLKLRHHLQIPIHPKDFLSVMLEKGSLSAM 79

QY 101 RLTAVALNLEHPEMLEK 116
DB 80 RLTAVALNLEHPEIWRK 95

RESULT 3

US-10-156-761-11189
; Sequence 11189, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11189
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-11189

Query Match 9.5%; Score 113; DB 15; Length 241;
Best Local Similarity 22.8%; Pred. No. 0.00094;
Matches 56; Conservative 37; Mismatches 99; Indels 54; Gaps 10;

QY 6 RTVELFYDVLSPYSWLGPF-EILCRYQNI-----WNINLQRLPSLITGIMKDSGNKPP--G 57
DB 9 RPPRFYLSRPSYSLAYRLDRLRYPATAAAVW-VPPFPDELSRKLAEAGGAFYPTP 67
QY 58 LLPRKGLYMANDLKLRHHLQIPIHPKDFLSV--MLEKGSLSAMRLTAVALNLEHPEMLE 115

DB 68 MSPEKRVILQDVRRLAGERGLEFTWVPVDRFPVVEVPHGLYLAARH--GVGAQVIALAA 125
QY 116 KASRELWNRVMSRN-----EDITEPOSTIIAAAEKAGMSAEQAQGLEKIEATPKVKNQL 168
DB 136 RARWELGLDICIORTVIAGFAAEGLDAELATASDDSLRAEGVRVLLB----- 174
QY 169 KETTEACRYGAFGLPITVAHVDTGTHMLFSGDRMELLAHLGKWMG----- 216
DB 175 -----IORDGVGVGFVDFHFD-----KYWGVDRLPFAFAALAAKTAADLTGVPDDSGDP 224
QY 217 -PIPPA 221
DB 225 LFPVPA 230

RESULT 4

US-10-156-761-8857
; Sequence 8857, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 8857
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-8857

Query Match 7.8%; Score 92.5; DB 15; Length 255;
Best Local Similarity 22.8%; Pred. No. 0.17; Mismatches 32; Indels 75; Gaps 12;
Matches 56; Conservative 32

QY 2 GPLPRTVELFYDVLSPYSWLGPEI-----LCRYQNIWNINLQ--LRPSLIT 45
DB 10 GAVPRVSAEAVLSHLRGAITERGDYA-IGEKLPSEAEELCRLEVSRLPVRREALRALQVM 68
QY 46 GIMKDSGNKPPGL-----PRKGLYMANDLKLRHHLQIPIHPKDFLSVMLEKGSLSA 99
DB 69 GLTASRTGKGTFLAHTVEDPTFGDYVASDLLEVRHVEIPV-----AGYAA 115
QY 100 MRLTAVALNLEH-PEMLEKASRELWNRVMSRNEDITEPOSIIAAAEKAGMSAEQAQGLEK 158
DB 116 LR-RTPENLDHLAHLDRERETDTTAWAMDTLFH-----LTVAAEA 157
QY 159 IATPKVKNQLKETTEACRYGAF-----GLPITVAHVDTGTHMLFSGDRME 204
DB 158 -QNPVFRVIEIRDALAQSAFLNGLGRREQSNREHRAIVEALIDRSEH-----DAVE 211
QY 205 LLAHLL 210
DB 212 AMSHLL 217

RESULT 5

US-10-369-493-2888
; Sequence 2888, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:

APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 2888
LENGTH: 581
TYPE: PRF
ORGANISM: Thermotoga maritima
US-10-369-493-2888

Query Match 7.7%; Score 91; DB 12; Length 581;
Best Local Similarity 19.0%; Pred. No. 0.84; Mismatches 67; Indels 38; Gaps 6;
Matches 35; Conservative 44

QY 28 RYQNIW-----NINLQRLPSLITGIMKDSGNKPPGL-----LPRKGLYMAN 68
DB 343 RPNVWFVSYDGKWLKDNLDLPQPKLYAIVGETGGKSTLMSLINGLVIPOKGNIFID 402

QY 69 DLKLLRHHLQIP-----IHFPKDFL-----SVMLEKGSLSANRFLITAVNLEHP-EMLE 115
DB 403 EIPLEYNLKLVRKQIAAQPQVLLFSGTGLNIRLFDSEIPERVLEALKRVHALDIIE 462

QY 116 KASRELWMRVWSNEDITEPQSTILAAAEKAGM-----SAEQAGLEKIATPKVKNOLK 169
DB 463 RLPGGVYIEVERGTGTLASAGRLIARAVLFDKIFILDEATSNVDVITETKIOALE 522

QY 170 ETTE 173
DB 523 ELSK 526

RESULT 6
US-10-369-493-23533
Sequence 23533, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 23533
LENGTH: 962
TYPE: PRF
ORGANISM: Escherichia coli
US-10-369-493-23533

Query Match 7.6%; Score 89.5; DB 12; Length 962;
Best Local Similarity 26.3%; Pred. No. 2.6; Mismatches 48; Indels 23; Gaps 3;
Matches 30; Conservative 13

QY 126 WSNEDITEPQSTILAAAEKAGMSEQA-----QGLEKIATPKVKNQ 167
DB 731 WCRNKDVVDKQSVIFEKAGNSTDSALAAVFPVTGYDEYTSAYSSLLGQIVQVPWFYNN 790
QY 168 LKETTEACRYGAGFLPITVAHVDGQTHLFGSDRMELLAAHLGCKWMGPIPPA 221

Db 791 LR--TEEQLGAVFAFPMSVGRQWGWGFLQSDNQ---PSFLWERYKKAFFPTA 839

RESULT 7
US-10-413-943-20
Sequence 20, Application US/10413943
Publication No. US20040006784A1
GENERAL INFORMATION:
APPLICANT: Mourad, George S.
TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
TITLE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminase
FILE REFERENCE: PRF-07898
CURRENT APPLICATION NUMBER: US/10/413,943
CURRENT FILING DATE: 2003-04-15
NUMBER OF SEQ ID NOS: 69
SOFTWARE: PatentIn version 3.2
SEQ ID NO 20
LENGTH: 545
TYPE: PRF
ORGANISM: Arabidopsis thaliana
US-10-413-943-20

Query Match 7.5%; Score 89; DB 12; Length 545;
Best Local Similarity 22.8%; Pred. No. 1.3; Mismatches 29; Conservative 29; Mismatches 57; Indels 80; Gaps 11;
Matches 49

QY 55 PPGL-LPRKGLYMANDLLRHHLQIPHFIPKDFLSVM-----LEKGSLS-AMRFLT-- 104
DB 5 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSIAEAMEYLTNI 52

QY 105 -----AVNLEHP-EMLEKASRELWMRVMSRNEDEITE-----POSILAA 141
DB 53 LSTKVYDIAIESPLQLAKKLKRLGVMYLKRDLQPVFSFKLRGAYNMWVKLPADQLAK 112

QY 142 AEKAGMSAEQAQG-----LLEKIATPKVKNOLKETTEACRYGAGFLPITVA 188
DB 113 GVTCSSAGNHAQGVALSASKLGCTAVIVMPTTPEIKWQAVENL----- 156

QY 189 HVDGQTHLFGSDRMELLAAHL--LGEKWMGPIPP 220
DB 157 ---GATVVLFGSDYDQAQAHAKIRAEELGTPIPP 188

RESULT 8
US-10-413-943-2
Sequence 2, Application US/10413943
Publication No. US20040006784A1
GENERAL INFORMATION:
APPLICANT: Mourad, George S.
TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
TITLE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminase
FILE REFERENCE: PRF-07898
CURRENT APPLICATION NUMBER: US/10/413,943
CURRENT FILING DATE: 2003-04-15
NUMBER OF SEQ ID NOS: 69
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 592
TYPE: PRF
ORGANISM: Arabidopsis thaliana
US-10-413-943-2

Query Match 7.5%; Score 89; DB 12; Length 592;
Best Local Similarity 22.8%; Pred. No. 1.4; Mismatches 29; Conservative 29; Mismatches 57; Indels 80; Gaps 11;
Matches 49

QY 55 PPGL-LPRKGLYMANDLLRHHLQIPHFIPKDFLSVM-----LEKGSLS-AMRFLT-- 104
DB 52 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSIAEAMEYLTNI 99

QY 105 -----AVNLEHP-EMLEKASRELWMRVMSRNEDEITE-----POSILAA 141

Db 100 LSTKVYDIAIESPLQIAKLSKRLGVRMYLKREDLPQVPSFKLRGAYNNMVKLPADQLAK 159
QY 142 AEKAGMSAEQAQG-----LLEKIATPKVNQKLTETEAACRYGAFGLPITVA 188
Db 160 GVICSSAGNHAQGVASASKLCTAVIVMPVTTPEIKWQAVENL-----203
QY 189 HVDGQTHMFGSDRMELLAHL---LGEKWMGPPIP 220
Db 204 ---GATVVLFGDSYDQAQAHAKIRAEEBGLTFIPP 235

RESULT 9

US-10-413-943-4
; Sequence 4, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S,
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; FILE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminase
; CURRENT APPLICATION NUMBER: US/10/413,943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 592
; TYPE: PRF
; ORGANISM: Arabidopsis thaliana
US-10-413-943-4

Query Match 7.5%; Score 89; DB 12; Length 592;
Best Local Similarity 22.8%; Pred. No. 1.4; Mismatches 57; Indels 80; Gaps 11;
Matches 49; Conservative 29;

QY 55 PPGL-LPRKGLYMANDLKLRRHLQIPHFPKDFLSVM-----LEKGSLS-AMRFLT-- 104
Db 52 PPKLPLPR-----LKVSPNSLQ---YPAGYLGAVPERTNEAENGSIAMBYLTNI 99
QY 105 -----AVNLEHP-EMLEKASRELMMRVMSRNEDITE-----POSILAA 141
Db 100 LSTKVYDIAIESPLQIAKLSKRLGVRMYLKREDLPQVPSFKLRGAYNNMVKLPADQLAK 159
QY 142 AEKAGMSAEQAQG-----LLEKIATPKVNQKLTETEAACRYGAFGLPITVA 188
Db 160 GVICSSAGNHAQGVASASKLCTAVIVMPVTTPEIKWQAVENL-----203
QY 189 HVDGQTHMFGSDRMELLAHL---LGEKWMGPPIP 220
Db 204 ---GATVVLFGDSYDQAQAHAKIRAEEBGLTFIPP 235

RESULT 10

US-10-413-943-64
; Sequence 64, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S,
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; FILE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminase
; CURRENT APPLICATION NUMBER: US/10/413,943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 64
; LENGTH: 592
; TYPE: PRF
; ORGANISM: Arabidopsis thaliana
US-10-413-943-64

Query Match 7.5%; Score 89; DB 12; Length 592;
Best Local Similarity 22.8%; Pred. No. 1.4; Mismatches 57; Indels 80; Gaps 11;
Matches 49; Conservative 29;

QY 55 PPGL-LPRKGLYMANDLKLRRHLQIPHFPKDFLSVM-----LEKGSLS-AMRFLT-- 104
Db 52 PPKLPLPR-----LKVSPNSLQ---YPAGYLGAVPERTNEAENGSIAMBYLTNI 99
QY 105 -----AVNLEHP-EMLEKASRELMMRVMSRNEDITE-----POSILAA 141
Db 100 LSTKVYDIAIESPLQIAKLSKRLGVRMYLKREDLPQVPSFKLRGAYNNMVKLPADQLAK 159
QY 142 AEKAGMSAEQAQG-----LLEKIATPKVNQKLTETEAACRYGAFGLPITVA 188
Db 160 GVICSSAGNHAQGVASASKLCTAVIVMPVTTPEIKWQAVENL-----203
QY 189 HVDGQTHMFGSDRMELLAHL---LGEKWMGPPIP 220
Db 204 ---GATVVLFGDSYDQAQAHAKIRAEEBGLTFIPP 235

RESULT 11

US-10-413-943-67
; Sequence 67, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S,
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; FILE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminase
; CURRENT APPLICATION NUMBER: US/10/413,943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 67
; LENGTH: 592
; TYPE: PRF
; ORGANISM: Arabidopsis thaliana
US-10-413-943-67

Query Match 7.5%; Score 89; DB 12; Length 592;
Best Local Similarity 22.8%; Pred. No. 1.4; Mismatches 57; Indels 80; Gaps 11;
Matches 49; Conservative 29;

QY 55 PPGL-LPRKGLYMANDLKLRRHLQIPHFPKDFLSVM-----LEKGSLS-AMRFLT-- 104
Db 52 PPKLPLPR-----LKVSPNSLQ---YPAGYLGAVPERTNEAENGSIAMBYLTNI 99
QY 105 -----AVNLEHP-EMLEKASRELMMRVMSRNEDITE-----POSILAA 141
Db 100 LSTKVYDIAIESPLQIAKLSKRLGVRMYLKREDLPQVPSFKLRGAYNNMVKLPADQLAK 159
QY 142 AEKAGMSAEQAQG-----LLEKIATPKVNQKLTETEAACRYGAFGLPITVA 188
Db 160 GVICSSAGNHAQGVASASKLCTAVIVMPVTTPEIKWQAVENL-----203
QY 189 HVDGQTHMFGSDRMELLAHL---LGEKWMGPPIP 220
Db 204 ---GATVVLFGDSYDQAQAHAKIRAEEBGLTFIPP 235

RESULT 12

US-10-413-943-6
; Sequence 6, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S,
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; FILE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminase
; CURRENT APPLICATION NUMBER: US/10/413,943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 6
; LENGTH: 609

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; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-413-943-6

Query Match
Best Local Similarity 7.5%; Score 89; DB 12; Length 609;
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Qy 55 PPGL-LPRKGLYMANDLKLRLHLLQIPIHFPKDFLSV-----LEKGSLS-AMRFLT-- 104
Db 69 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSAEAMEYLTNI 116

Qy 105 -----AVNLEHP-EMLEKASRELWMRVMSRNEDEITE-----POSTILAA 141
Db 117 LSTKVYDIAIESPLQLAKLSKRLGVRMYLKREDLQPVFSFKLRGAYNMVKLPADQLAK 176

Qy 142 AEKAGMSAEQAQG-----LLEKIATPKVKNQKLTETEAACRYGAFGLPTIVA 188
Db 177 GVICSSAGNHAQGVALSASKLGCTAVIVMPVTTTPEIKWQAVENL----- 220

Qy 189 HVDGQTHLFGSDRMELLALH-----LGEKWMGPIPP 220
Db 221 ---GATVVLFGDSYDQQAQAHAKIRAESEGLTFIPP 252

RESULT 13
US-10-413-943-63
; Sequence 63, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S,
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; TITLE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminas
; FILE REFERENCE: PRF-07898
; CURRENT APPLICATION NUMBER: US/10/413.943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 63
; LENGTH: 609
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-413-943-63

Query Match
Best Local Similarity 7.5%; Score 89; DB 12; Length 609;
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Qy 55 PPGL-LPRKGLYMANDLKLRLHLLQIPIHFPKDFLSV-----LEKGSLS-AMRFLT-- 104
Db 69 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSAEAMEYLTNI 116

Qy 105 -----AVNLEHP-EMLEKASRELWMRVMSRNEDEITE-----POSTILAA 141
Db 117 LSTKVYDIAIESPLQLAKLSKRLGVRMYLKREDLQPVFSFKLRGAYNMVKLPADQLAK 176

Qy 142 AEKAGMSAEQAQG-----LLEKIATPKVKNQKLTETEAACRYGAFGLPTIVA 188
Db 177 GVICSSAGNHAQGVALSASKLGCTAVIVMPVTTTPEIKWQAVENL----- 220

Qy 189 HVDGQTHLFGSDRMELLALH-----LGEKWMGPIPP 220
Db 221 ---GATVVLFGDSYDQQAQAHAKIRAESEGLTFIPP 252

RESULT 14
US-10-413-943-59
; Sequence 59, Application US/10413943
; Publication No. US20040006784A1
; GENERAL INFORMATION:
; APPLICANT: Mourad, George S,
; TITLE OF INVENTION: Methods and Compositions for Producing Plants and Microorganisms
; TITLE OF INVENTION: that Express Feedback Insensitive Threonine Dehydratase/Deaminas
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; FILE REFERENCE: PRF-07898
; CURRENT APPLICATION NUMBER: US/10/413.943
; CURRENT FILING DATE: 2003-04-15
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 59
; LENGTH: 751
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
US-10-413-943-59

Query Match
Best Local Similarity 7.5%; Score 89; DB 12; Length 751;
Matches 49; Conservative 29; Mismatches 57; Indels 80; Gaps 11;

Qy 55 PPGL-LPRKGLYMANDLKLRLHLLQIPIHFPKDFLSV-----LEKGSLS-AMRFLT-- 104
Db 60 PPKLPLPR-----LKVSPNSLQ-----YPAGYLGAVPERTNEAENGSAEAMEYLTNI 107

Qy 105 -----AVNLEHP-EMLEKASRELWMRVMSRNEDEITE-----POSTILAA 141
Db 108 LSTKVYDIAIESPLQLAKLSKRLGVRMYLKREDLQPVFSFKLRGAYNMVKLPADQLAK 167

Qy 142 AEKAGMSAEQAQG-----LLEKIATPKVKNQKLTETEAACRYGAFGLPTIVA 188
Db 168 GVICSSAGNHAQGVALSASKLGCTAVIVMPVTTTPEIKWQAVENL----- 211

Qy 189 HVDGQTHLFGSDRMELLALH-----LGEKWMGPIPP 220
Db 212 ---GATVVLFGDSYDQQAQAHAKIRAESEGLTFIPP 243

RESULT 15
US-09-738-626-4728
; Sequence 4728, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 4728
; LENGTH: 395
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-4728

Query Match
Best Local Similarity 7.5%; Score 88.5; DB 10; Length 395;
Matches 38; Conservative 24; Mismatches 65; Indels 35; Gaps 7;

Qy 84 PKDFLSVMLEKGSLSAMRFLTAVNLEHP-EMLEKASRELWMRVMSRNEDEITEPOSTILAAE 143
Db 206 PEALMAFLMEKIQLTKYLFTHP-KHPE-----QVMSPDYGDIGPEAYANATL 253
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Qy 144 KAGMSAEQAGLEKJATPKVK-NQKETEACRYGAFGLPITVAHV-----GOT 194
Db 254 VCAKDLDEVAGATEKSYTSEKMKALIRARDGHCRFPGCCVPASKCQVDHIIIPWABGGPT 313
Qy 195 -----HMLFGSDRMELLALHGE-KWMPGP-PAV 222
Db 314 AAWNLOLLCQRHNMTDGRFTADANGLAEIRWIGPMDVPAV 355

Search completed: February 11, 2004, 10:49:59
Job time : 34 secs

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OM protein - protein search, using sw model

Run on: February 11, 2004, 10:39:59 ; Search time 21 seconds
(without alignments)
455.345 Million cell updates/sec

Title: US-09-441-723-1
Perfect score: 1185
Sequence: 1 MGPLPRIVELFYDVLSPYSW.....AHLIGKWMGPIPPAVNRL 226

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA.*
1: /cgn2_6/ptodata/1/iaa/5A COMB.pap.*
2: /cgn2_6/ptodata/1/iaa/5B COMB.pap.*
3: /cgn2_6/ptodata/1/iaa/6A COMB.pap.*
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6: /cgn2_6/ptodata/1/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1185	100.0	226	3	US-08-978-174-1
2	874	73.8	226	3	US-08-978-174-3
3	196	16.5	203	4	US-09-252-991A-17282
4	87	7.3	1150	4	US-09-252-991A-24671
5	80.5	6.8	339	2	US-08-855-714-3
6	78.5	6.6	353	4	US-09-252-991A-16824
7	77	6.5	659	4	US-09-198-452A-432
8	76.5	6.5	317	2	US-09-066-075-2
9	76.5	6.5	317	3	US-08-518-615A-2
10	76.5	6.5	317	3	US-08-951-889-2
11	76.5	6.5	317	3	US-09-472-857-2
12	76.5	6.5	497	1	US-08-075-193-4
13	76.5	6.5	497	2	US-08-564-090A-4
14	76.5	6.5	497	5	PCT-US94-06698-4
15	76	6.4	588	4	US-09-601-777-2
16	75.5	6.4	1398	1	US-08-750-532-9
17	75.5	6.4	1398	3	US-08-894-818B-8
18	75.5	6.4	1398	4	US-09-445-472-6
19	75	6.3	289	4	US-09-134-001C-4583
20	74	6.2	339	4	US-09-489-847-350
21	74	6.2	554	4	US-09-489-847-352
22	74	6.2	884	4	US-09-741-150-4
23	74	6.2	2474	4	US-08-265-967C-3
24	74	6.2	2474	4	US-08-305-790B-4
25	73.5	6.2	404	4	US-09-328-352-6854
26	73.5	6.2	523	2	US-08-473-553A-3
27	73.5	6.2	869	1	US-08-188-582-32

28	73.5	6.2	869	1	US-08-646-715-32	Sequence 32, Appl
29	73.5	6.2	980	2	US-08-473-553A-6	Sequence 6, Appli
30	73.5	6.2	985	2	US-08-473-553A-2	Sequence 2, Appli
31	73	6.2	733	4	US-09-345-473B-42	Sequence 42, Appl
32	73	6.2	948	1	US-08-698-551-14	Sequence 14, Appl
33	73	6.2	948	2	US-08-602-228-14	Sequence 14, Appl
34	73	6.2	948	2	US-08-533-901B-14	Sequence 14, Appl
35	73	6.2	948	2	US-08-839-032A-14	Sequence 14, Appl
36	73	6.2	948	2	US-08-839-031A-14	Sequence 14, Appl
37	73	6.2	948	4	US-09-185-258C-14	Sequence 14, Appl
38	73	6.2	948	5	PCT-US95-12724-14	Sequence 14, Appl
39	72.5	6.1	249	4	US-09-107-532A-5923	Sequence 5923, Ap
40	72	6.1	803	4	US-09-252-991A-19492	Sequence 19492, A
41	71.5	6.0	461	4	US-09-346-408-8	Sequence 8, Appli
42	71.5	6.0	532	3	US-09-181-336-15	Sequence 15, Appl
43	71.5	6.0	543	2	US-08-922-170B-10	Sequence 10, Appl
44	71.5	6.0	543	3	US-09-071-739B-2	Sequence 2, Appli
45	71.5	6.0	543	3	US-09-181-336-13	Sequence 13, Appl

ALIGNMENTS

RESULT 1
US-08-978-174-1
; Sequence 1, Application US/08978174
; Patent No. 6030809
; GENERAL INFORMATION:
; APPLICANT: Shah, Purvi
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: NEW GLUTATHIONE-S-TRANSFERASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: Fatseq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/978,174
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0430 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 226 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BLADTUT04
; CLONE: 1554593
; US-08-978-174-1

Query Match 100.0%; Score 1185; DB 3; Length 226;

Best-Local Similarity 100.0%; Pred. No. 8.7e-126; Mismatches 0; Indels 0; Gaps 0;
Matches 226; Conservative 0;
QY 1 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
DB 1 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
QY 61 RKGLYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPEMLEKASRE 120
DB 61 RKGLYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPEMLEKASRE 120
QY 121 LMRVWSRNEDITEPOSILAAAEKAGMSAQOAGLLEKIATPKVNQKLETTAAACRYGA 180
DB 121 LMRVWSRNEDITEPOSILAAAEKAGMSAQOAGLLEKIATPKVNQKLETTAAACRYGA 180
QY 181 FGLPITVAHVGDGTHMLFGSDRMELLAHLLGKWMGPIPPAVNARL 226
DB 181 FGLPITVAHVGDGTHMLFGSDRMELLAHLLGKWMGPIPPAVNARL 226

RESULT 2

US-08-978-174-3
; Sequence 3, Application US/08978174
; Patent No. 6030809
; GENERAL INFORMATION:
; APPLICANT: Shah, Purvi
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Lal, Preeti
; APPLICANT: Corley, Neil C.
; TITLE OF INVENTION: NEW GLUTATHIONE-S-TRANSFERASE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/978,174
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ballings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0430 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 226 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: ?
US-08-978-174-3

Query Match 73.8%; Score 874; DB 3; Length 226;
Best Local Similarity 69.5%; Pred. No. 1.2e-90;
Matches 157; Conservative 38; Mismatches 31; Indels 0; Gaps 0;

QY 1 MGPLPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLP 60
DB 1 MGPAFRVLELFYDVLSPYSWLGFEILCRYQHUNIKLRLPALLAGIMKDSGNQPPAMVP 60
QY 61 RKGLYMANDLKLRLHHLQIPIHPKDFLSVLMKSGLSAMRFLTAVNLEHPEMLEKASRE 120
DB 61 HKGQYILKEIPLKQLFQVPMSPVKDFGEHVYKGTAVNAMRFLTAVSMEQPEMLEKVSRE 120
QY 121 LMRVWSRNEDITEPOSILAAAEKAGMSAQOAGLLEKIATPKVNQKLETTAAACRYGA 180
DB 121 LMRVWSRNEDITEPOSILAAAEKAGMSAQOAGLLEKIATPKVNQKLETTAAACRYGA 180
QY 181 FGLPITVAHVGDGTHMLFGSDRMELLAHLLGKWMGPIPPAVNARL 226
DB 181 FGLPITVAHVGDGTHMLFGSDRMELLAHLLGKWMGPIPPAVNARL 226

RESULT 3

US-09-252-991A-17282
; Sequence 17282, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17282
; LENGTH: 203
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17282

Query Match 16.5%; Score 196; DB 4; Length 203;
Best Local Similarity 26.1%; Pred. No. 4.6e-14;
Matches 55; Conservative 40; Mismatches 94; Indels 22; Gaps 5;

QY 4 LPRTVELFYDVLSPYSWLGFEILCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLPKRG 63
DB 9 MSKQIEFFDFGSPITYLAWTOLPIAAAHGASIAWRPMLLGVFKATGNHSPFIEVPAKG 68
QY 64 LYMANDLKLRLHHLQIPI---HFPKDFLSVLMKSGLSAMRFLTAVNLEHPEMLEKASR 119
DB 69 RYTLHDLYARYKRYGVPLAFNPAFINTLTLM-----RGAQGYLGG-----EGQPPLYK 117
QY 120 ELMRVWSRNEDITEPOSILAAAEKAGMSAQOAGLLEKIATPKVNQKLETTAAACRYG 179
DB 118 AVFEALWVRQNLGKPEVVAQVLAEGAFDPDE---FLRVGDEQVKEGLKATTEAVRRG 174
QY 180 AGLPITVAHVGDGTHMLFGSDRMELLAHLL 210
DB 175 VFGAPSFV-----GDQLFFGQRLDFVREAL 201

RESULT 4

US-09-252-991A-24671
; Sequence 24671, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 24671
LENGTH: 1150
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24671

Query Match 7.3%; Score 87; DB 4; Length 1150;
Best Local Similarity 26.4%; Pred. No. 1.3;
Matches 46; Conservative 27; Mismatches 59; Indels 42; Gaps 11;
QY 84 PKDPLSVMLEKGSLSAMRFLTAVN-LEHPEMLEKASRELWMRYVSRNE-----DITEPSQI 138
DB 581 PEDWLC-----DGTGYDFNQSLSLQHDPRGRPIRLMQRVSGRPEAFLDVYQARQL 635
QY 139 LAAAEKAGMSAEQAQGLLEKIAITPKVKNQKETTEAACRYGAPGL-----PI--TVARVDG 192
DB 636 VLAGSLAGDLENLAQGLL-RVARADLAS--RDLTGGIRRALPOLLARPPVYRTYAGACG 692
QY 193 QT-----HMLFGSDRMELLAHLGKWMG-----PIPPAVNARL 226
DB 693 RSVQDREVFYAAEAAREDDLEADR-AVLDDL--ERWLGQQLRELPFGPLREL 743

RESULT 5
US-08-855-714-3
Sequence 3, Application US/08855714
Patent No. 5939075
GENERAL INFORMATION:
APPLICANT: Hough, Huo-Shu H.
APPLICANT: Warren, Richard L.
TITLE OF INVENTION: MUTANTS OF BRUCELLA MELITENSIS
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEE: John Moran, Esq.
STREET: HQ USAMRDC, Dept. of Army, Fort Detrick
CITY: Frederick
STATE: MD
COUNTRY: US
ZIP: 21702-5012
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/855,714
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/334,129
FILING DATE: 04-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Hendricks, Glenna
REGISTRATION NUMBER: 32,535
REFERENCE/DOCKET NUMBER: 08/143,692
TELEPHONE: (301) 619-2065
TELEFAX: (301) 619-7714
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 339 amino acids
TYPE: amino acid
STRANDEDNESS: both
TOPOLOGY: unknown
MOLECULE TYPE:
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: BRUCELLA MELITENSIS
US-08-855-714-3

Query Match 6.8%; Score 80.5; DB 2; Length 339;
Best Local Similarity 21.7%; Pred. No. 1.1;
Matches 65; Conservative 25; Mismatches 96; Indels 113; Gaps 14;
QY 3 PLPRTVELFYDVL-----PYSWLGFELCRYQIWININLQRLPSLITGIMKDSGNKPPGL 59
DB 47 PLPTSSPMNLKWCQSAPPTSLKRLFCPRPHWK-----SLRTASQKSSSFTKAALK 99
QY 60 PRK-GLYMANDIKLRRHHLQIPIHPFKDFLSVMLEKGLS-----SAMRFLTAVNLEH 110
DB 100 PRPGSMMWTRKSSPRASALGRAWH-PQDRRLGYDQKGVRLASLDLTDQACNAPAIN-KA 157
QY 111 PEMLE---KASRELWMRVMSRNEDITEPOSILAAAEKAG-----SVIAARDRSNVAIFDLAENVHKGILATST 202
DB 158 PALEGFVFREVV-----MSAQAQGLLEKIA-----TPKVNQOLKETTE 173
QY 147 -----MSAQAQGLLEKIA-----TPKVNQOLKETTE 173
DB 203 VPAATISVQTAAEAARTAAEKLLHALDYVGLGLEFFVLKDGTLTLLANEFAPRVHNS-GHWTE 261
QY 174 AACRYGAP-----GLPI--TVARVDGQTHMLFGSD-----RMELLAHLGK 213
DB 262 AACATISQFEQHIRAVAGLPLGNTDRHSDCMENLIGDIEKVPAILCEKXNAVILHLYGKK 320

RESULT 6
US-09-252-991A-16824
Sequence 16824, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 16824
LENGTH: 353
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-16824

Query Match 6.6%; Score 78.5; DB 4; Length 353;
Best Local Similarity 26.1%; Pred. No. 2;
Matches 62; Conservative 26; Mismatches 79; Indels 71; Gaps 15;
QY 33 WVINLQRLPSLITGIMKDSGNK-----PPGILLPRKGLYMA-----NDLKLRRHHLQIPI 81
DB 134 WTALLVRKDSPIRSLAELKGRKVAATKGTDPYLFLLRSLHSLVGLDKNDLRIV--HLQHPD 191
QY 82 HFPKDFLSVMLEKGSLSAMRFLTAVNLEHPEM-----LEKASRELWMR-----VMSRNE 130
DB 192 G-----RVALEKQVDWAGL-----DPHMAASELOAGSRLLYRNLFNSYGVNLVRE 239
QY 131 DITE--PQ---SILAAAEKA-----GMSAEQAQGLLEKIAKP--KVNQOLKETTEAACRY 178
DB 240 DFAERHPQLIROVLAAYEQARHWVIGHDPDEAQAALLAEAGLPLEVARLQLSRTD----- 293
QY 179 GAFGLPI-----TVARVDGQTHMLF-----GSDRMELLAHLGKWM-----NGPIPPA 221
DB 294 --FSQPLGAEQVAALKAAAPILADLERLVRPGVDQKVVDDELIAPOWAAAEVIGGVPLA 349

RESULT 7
US-09-198-452A-432
Sequence 432, Application US/09198452A
Patent No. 6559294

GENERAL INFORMATION:
APPLICANT: Griffiths, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
TITLE OF INVENTION: and treatment of infection
FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/09/198,452A
CURRENT FILING DATE: 1998-11-24
NUMBER OF SEQ ID NOS: 6849
SEQ ID NO 432
LENGTH: 659
TYPE: PRT
ORGANISM: Chlamydia pneumoniae
FEATURE:
NAME/KEY: SITE
LOCATION: 1...659
OTHER INFORMATION: Xaa=unknown or other
US-09-198-452A-432

Query Match 6.5%; Score 77; DB 4; Length 659;
Best Local Similarity 21.3%; Pred. No. 7.8;
Matches 52; Conservative 36; Mismatches 98; Indels 58; Gaps 8;
QY 9 ELFYDVL-----PYSMLGPEILCRYQNI-----WNINLQRLPSLITGI 47
DB 371 ERFYVNLHPDLHSQKEREIEFLGLSNTITFENVSGYQEDKHILKNLSFTLHKGEALGI 430
QY 48 MKDSGNKPP-----GLIPRKLGYWANDLKLRRHLLQIPHPKDFLSVMLEKGSLSAMRFLT 104
DB 431 VGPTSGKTLVKLLPR-----LYEVSQKILIDSLPITEY-----NKGSL-----RNHI 475
QY 105 AVNLEHP-----EMLEKASRELWVRVMSRNEIDITPQSILAAAEKAGWSA 149
DB 476 ACVLQNPFLFYDTVWNNLTTCGDMBEZAVLEAKRAYADEFLKLPKGVHVSLESGKNL 535
QY 150 EQAQGLLEKIATPKVKNQ-----LKETTEAACRYGAFGLPITVAHVDDGQTHMLFGSDRMEL 205
DB 536 SGGQOQLALALBALKKNASILLDEATSDALDAISENYIKNIIGELKGQCTQIIIAHKLTT 595
QY 206 LAHL 209
DB 596 LEHV 599

RESULT 8
US-09-066-075-2
Sequence 2, Application US/09066075
Patent No. 5925749
GENERAL INFORMATION:
APPLICANT: Mathur, E., et al.
TITLE OF INVENTION: Carboxymethyl Cellulase from Thermotoga Maritima
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSEE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/066,075
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/518,615
FILING DATE: August 23, 1995
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 331400-20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:

NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 331400-20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 317 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-09-066-075-2

Query Match 6.5%; Score 76.5; DB 2; Length 317;
Best Local Similarity 21.1%; Pred. No. 2.9;
Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;
QY 76 HLOIPIH-----PP-----KDFLSVMLEKGSLSAMRFLTAVNLEHPEMLEK 116
DB 49 HVRPIRSTHAYAPPPYKIMDRFFKRVDEVINGALKKG-----LAVAINIHVYELMN 102
QY 117 ASRE-----LWVRVMSRNE-----ITEPQS----- 137
DB 103 DPEEHKEFLALWKQIADRYKDYPTLFFELNBPNGHNLTPKWNELLEALKVIRSIDK 162
QY 138 -----ILAAAEKAGWSAQOGLLEKIATPKVKNQKETTAAACRYGAFGLPITVAHVDDGQ 193
DB 163 KHTIIGTAEWGGIS-----LEKLSVPKWE-----KNSIVTHYNNPFEF----- 203
QY 194 THMLFGSDRMELLAHLLGEKWMGP 217
DB 204 THQ--GAWEVGESEKWLGRKMGSP 225

RESULT 9
US-08-518-615A-2
Sequence 2, Application US/08518615A
Patent No. 5962258
GENERAL INFORMATION:
APPLICANT: Mathur, E., et al.
TITLE OF INVENTION: Carboxymethyl Cellulase from Thermotoga Maritima
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSEE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/518,615A
FILING DATE: August 23, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 331400-20
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:

LENGTH: 317 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-08-518-615A-2

Query Match 6.5%; Score 76.5; DB 2; Length 317;
Best Local Similarity 21.1%; Pred. No. 2.9;
Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;
QY 76 HLQIPHIH-----FP-----KDFLSVMLEKSGLSAMRFLTAVNLEHPEMLEK 116
DB 49 HVPIPIRWSHTAYAPPPYKIMDRFFKRVDEVINGALKRG-----LAVAINIHYYBELMN 102
QY 117 ASRE-----LWVRVWSRNE-----ITEPOS----- 137
DB 103 DPEEHKERFLALWKQIADRYKQYPETLFFELNPHGNLTPEKNWELLEALKVIRSIDK 162
QY 138 -----ILAAAEKAGMSAEQAQGLEKIATPKVKNQKLTETEAACRYGAFGLPITVAHV DQG 193
DB 163 KHTIIIGTAEWGGISA-----LEKLSVPRKWE-----KNSIVTIHYNPFEP----- 203
QY 194 THMLFGSDRMELLALHLLGKRWGP 217
DB 204 THQ--GAEWVEGSEKWLGRKWGP 225

RESULT 10
US-08-951-889-2
; Sequence 2, Application US/08951889
; Patent No. 6008032
; GENERAL INFORMATION:
; APPLICANT: Mathur, E., et al.
; TITLE OF INVENTION: Carboxymethyl Cellulase from
; TITLE OF INVENTION: Thermotoga Maritima
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/951,889
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/518,615
; FILING DATE: August 23, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 331400-20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 317 AMINO ACIDS
; TYPE: AMINO ACID
; STRANDEDNESS:
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PROTEIN
US-08-951-889-2

Query Match 6.5%; Score 76.5; DB 3; Length 317;
Best Local Similarity 21.1%; Pred. No. 2.9;
Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;
QY 76 HLQIPHIH-----FP-----KDFLSVMLEKSGLSAMRFLTAVNLEHPEMLEK 116
DB 49 HVPIPIRWSHTAYAPPPYKIMDRFFKRVDEVINGALKRG-----LAVAINIHYYBELMN 102
QY 117 ASRE-----LWVRVWSRNE-----ITEPOS----- 137
DB 103 DPEEHKERFLALWKQIADRYKQYPETLFFELNPHGNLTPEKNWELLEALKVIRSIDK 162
QY 138 -----ILAAAEKAGMSAEQAQGLEKIATPKVKNQKLTETEAACRYGAFGLPITVAHV DQG 193
DB 163 KHTIIIGTAEWGGISA-----LEKLSVPRKWE-----KNSIVTIHYNPFEP----- 203
QY 194 THMLFGSDRMELLALHLLGKRWGP 217
DB 204 THQ--GAEWVEGSEKWLGRKWGP 225

RESULT 11
US-09-472-857-2
; Sequence 2, Application US/09472857
; Patent No. 6245547
; GENERAL INFORMATION:
; APPLICANT: Mathur, E., et al.
; TITLE OF INVENTION: Carboxymethyl Cellulase from
; TITLE OF INVENTION: Thermotoga Maritima
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
; ADDRESSEE: CECCHI, STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 INCH DISKETTE
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WORD PERFECT 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/472,857
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/951,889
; FILING DATE:
; APPLICATION NUMBER: 08/518,615
; FILING DATE: August 23, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 331400-20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 317 AMINO ACIDS
; TYPE: AMINO ACID
; STRANDEDNESS:
; TOPOLOGY: LINEAR
; MOLECULE TYPE: PROTEIN
US-09-472-857-2

Query Match 6.5%; Score 76.5; DB 3; Length 317;
Best Local Similarity 21.1%; Pred. No. 2.9;
Matches 43; Conservative 22; Mismatches 50; Indels 89; Gaps 10;
QY 76 HLQIPHIH-----FP-----KDFLSVMLEKSGLSAMRFLTAVNLEHPEMLEK 116

Db 49 HVRIFIRWSTHAYAPPPYKMDRPFKRVDEVINGALKRG-----LAVAINIHYYEELMN 102
QY 117 ASRE-----LWVRVWSNED-----ITEPQS----- 137
Db 103 DPEEHKERFLAKWKQADRYKDYPTLPPPEILNEPHGNLTPEKWNELLEAKLVIRSIDK 162
QY 138 -----ILAAAEKAGMAEQOGLLEKIATPKVKNQKLEKTEAACRYGAGPLTVAHVQGO 193
Db 163 KHTIIIGTAEWGGISA-----LEKLSVPKWE---KNSIVTIHYNPFEE----- 203
QY 194 THMLFGSDRMELLAHLGKXWGP 217
Db 204 THQ--GAWEVGESEKWLGRKWSP 225

RESULT 12
US-08-075-193-4
; Sequence 4, Application US/08075193
; Patent No. 5547868
; GENERAL INFORMATION:
; APPLICANT: MILLER, WALTER L.
; APPLICANT: HARIKRISHNA, JENNIFER A.
; APPLICANT: BLACK, STEPHEN M.
; TITLE OF INVENTION: CHOLESTEROL DISPOSAL FUSION ENZYMES
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD CASTRO HUDDLESON & TATUM
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA: US/08/075,193
FILING DATE: 09-JUN-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: NEELEY Ph.D., RICHARD L.
REGISTRATION NUMBER: 30,092
REFERENCE/DOCKET NUMBER: UCAL-236/0005
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-494-7622
TELEFAX: 415-857-0663
TELEX: 380816 COOLEY PA
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 497 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-075-193-4

Query Match 6.5%; Score 76.5; DB 1; Length 497;
Best Local Similarity 25.4%; Pred. No. 5.8;
Matches 44; Conservative 29; Mismatches 69; Indels 31; Gaps 9;

QY 14 VLSPYSWLGFELCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLPKRG-LYMANDLKL 72
Db 195 LITPPEHLEALLCQRTDITKAAL-----GVLRQSRVKTWVWVGRGPLQVAFITKE 246
QY 73 LRHHLQI-----PIHFPKDFL-----SVMLEKGSLSAMRFLTAVNLEHPEMLEKASREL 121
Db 247 LREMIQLPGARPILDVDFGLQDKIKEVPRPKRLTELLRTAT--EKPGPAEAARQAS 304
QY 122 WMRVWSRNEDITEPOSILAAAEKAGMSAQOGLLEKIATPKVKNQKLEKTEA 174
Db 305 ASRAWGL-RFRSPQVLPSPD-----GRRAGV--RLAVTELEG-VDEATRA 348

RESULT 13
US-08-564-090A-4
; Sequence 4, Application US/08564090A
; Patent No. 5939318
; Patent No. 5939318 5741703
; GENERAL INFORMATION:
; APPLICANT: MILLER, WALTER L.
; APPLICANT: HARIKRISHNA, JENNIFER A.
; APPLICANT: BLACK, STEPHEN M.
; TITLE OF INVENTION: CHOLESTEROL DISPOSAL FUSION ENZYMES
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: COOLEY GODWARD LLP
; STREET: FIVE PALO ALTO SQUARE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA: US/08/564,090A
FILING DATE: 02/05/96
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: RICHARD L. NEELEY, Ph.D.
REGISTRATION NUMBER: 30,092
REFERENCE/DOCKET NUMBER: UCAL-236/01US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-843-5000
TELEFAX: 415-857-0663
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 497 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-564-090A-4

Query Match 6.5%; Score 76.5; DB 2; Length 497;
Best Local Similarity 25.4%; Pred. No. 5.8;
Matches 44; Conservative 29; Mismatches 69; Indels 31; Gaps 9;

QY 14 VLSPYSWLGFELCRYQNIWNINLQRLPSLITGIMKDSGNKPPGLLPKRG-LYMANDLKL 72
Db 195 LITPPEHLEALLCQRTDITKAAL-----GVLRQSRVKTWVWVGRGPLQVAFITKE 246
QY 73 LRHHLQI-----PIHFPKDFL-----SVMLEKGSLSAMRFLTAVNLEHPEMLEKASREL 121
Db 247 LREMIQLPGARPILDVDFGLQDKIKEVPRPKRLTELLRTAT--EKPGPAEAARQAS 304
QY 122 WMRVWSRNEDITEPOSILAAAEKAGMSAQOGLLEKIATPKVKNQKLEKTEA 174
Db 305 ASRAWGL-RFRSPQVLPSPD-----GRRAGV--RLAVTRLEG-VDEATRA 348

RESULT 14
PCT-US94-06698-4
; Sequence 4, Application PC/TUS9406698
; GENERAL INFORMATION:
; APPLICANT: MILLER, WALTER L.
; APPLICANT: HARIKRISHNA, JENNIFER A.
; APPLICANT: BLACK, STEPHEN M.
; TITLE OF INVENTION: CHOLESTEROL DISPOSAL FUSION ENZYMES
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ROBBINS, BERLINER & CARSON

STREET: 201 NORTH FIGUEROA STREET
 CITY: LOS ANGELES
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 90012
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US94/06698
 FILING DATE: FILED HERewith
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: BERLINER, ROBERT
 REGISTRATION NUMBER: 20,121
 REFERENCE/DOCKET NUMBER: 5555-224-C1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 213-977-1001
 TELEFAX: 213-977-1003
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 497 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PCT-US94-06698-4

Search completed: February 11, 2004, 10:45:28
 Job time : 22 secs

Query Match 6.5%; Score 76.5; DB 5; Length 497;
 Best Local Similarity 25.4%; Pred. No. 5.8;
 Matches 44; Conservative 29; Mismatches 69; Indels 31; Gaps 9;
 Qy 14 VLSFYSWLGFEILCRYQNIWNINQLRPSLITGIMKDSGNKPPGLPRKG-LYMANDLKL 72
 Db 195 LITPPEHLEALLCQRTDITKAAL-----GVLRQSRVKTVMVGRRGFLQVAFIKE 246
 Qy 73 LRHHLQI-----PIHFPKDFL-----SVMLEKGSLSAMRFLTAVNLEHPEMLEKASREL 121
 Db 247 LREMIQLPGARPLDPVDFLGLQDKIKEVPRPRKRLTELLRLTAT--EKFGPAEAFQAS 304
 Qy 122 WMRVWSRNEIDTEPQSILAAAEKAGMSAEQAQGLLEKIATPKVNQLKETTEA 174
 Db 305 ASRAWGL-RFRSPQQLPSPD-----GRRAGV-RLAVTRLEG-VDEATRA 348

RESULT 15
 US-09-601-777-2
 ; Sequence 2, Application US/09601777
 ; Patent No. 6461848
 ; GENERAL INFORMATION:
 ; APPLICANT: Nakajima, Motowo
 ; APPLICANT: Funakubo, Minako
 ; TITLE OF INVENTION: Human heparanase polypeptide and cDNA
 ; FILE REFERENCE: 30384A
 ; CURRENT APPLICATION NUMBER: US/09/601,777
 ; CURRENT FILING DATE: 2000-08-07
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: Patent In Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 588
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-09-601-777-2

Query Match 6.4%; Score 76; DB 4; Length 588;
 Best Local Similarity 19.4%; Pred. No. 8.5;
 Matches 36; Conservative 27; Mismatches 71; Indels 52; Gaps 6;
 Qy 14 VLSFYSWLGFEILCRYQNIWNINQL-----LRPSLITGIMKDSGNKPPG 57
 Db 24 ISAPFKW-----VWVISWRGQPGPKMLRSKALPPPLMLLLGLPLGSLPG 72